

- Available as totalizer, R.P.M. meter and Combined
- One or two 6-digit LED displays
- Programmable divider and multiplier
- Pulse counting and batch counting
- Additional inputs CLEAR, GATE, and DIRECTION
- 6 user-selectable operating modes plus dosing mode
- Up to 2 programmable relay outputs
- Optional optical input isolation up to 1500 VAC
- Contact input software filter

DESCRIPTION

BDC34 is a sophisticated new-generation counter. The device is equipped with a 6-digit display, which can hold up to 999999 count units or batches, and may have up to 2 programmable relay outputs and an analog output for alarm signalling or process controlling. BDC34 is available as a counter, as an R.P.M. meter, and as a combination of both. As a counter, this model allows programming of 7 different counting and output-relay-action modes (including dosing mode) as well as counting pulses or pulse batches. The R.P.M.-meter variant has 6 operating modes. Besides its counting input, the device has three additional inputs: CLEAR, GATE, and DIRECTION. A userprogrammable software input filter is also available. Other useful BDC34 features are the fraction number coefficient prescaler and the programmable actual and displayed counting directions. With its various features and flexible programmable internal structure, the BDC34 counter is a widely applicable industrial control device.

TECHNICAL SPECIFICATIONS

Construction : Panel design to standard DIN
Housing : Plastic
Isolation : Input to output to supply
Indication : 2 x LED, PV 6-digit, SP 6-digit LED
Keyboard : 4 membrane keys

INPUT

Counting : Mechanical contact (NO) or electronic (from PNP/NPN sensor)

Active front selection: Programmable

Input CLEAR : Reset the counter to 0 (4 functions)

Input GATE : Enables pulse counting

Input DIRECTION : Change counting direction

Frequency : Max 5kHz

Filter : For suppression of contact bouncing

Prescaler multiplying coeff: 1-9999 programmable

Prescaler dividing coeff : 1-9999 programmable

MODES

Operating modes : 7 (incl. dosing mode)

Counting modes : Pulse counting and batch counting

Counting range : 0-2147483647

Programming : Through keyboard

OUTPUT

Relay : 250VAC 5A, NO/NC contact (NO type L)

MOS gate : 0;1A/60V, optically isolated

Transistor gate : Open collector NPN 40V/40mA

Extern SSR : 5-24VDC/50mA

Relay action : According to the mode

Output pulse duration: 0,1 to 99,9 sec programmable

Input isolation : Optical 1500VAC (option)

Analog : 0 (4)-20mA, 0-10V


INSTALLATION

Supply : 90 to 250VAC/DC or 12 to 24VAC/DC
Ambient temp : -10 to +65°C, RH 0 till 85%
Mounting : Panel with bracket
Protection class : IP65 front, IP20 rear
Dimension : B72 x H36 x D62mm (type L), B96 x H48 x D107mm (type H),
Weight : 180g type L, 280g type H with bracket

PERFORMANCE

Accuracy error : < ±0.001% FS
Display : 2 x 6-digit LED
 2 LEDs for output state
Keyboard : 4 membrane keys
Power consumption : 6 VA
EMC : EN 50081-1, EN 50082-2, EN 61010-1
 73/23/EEC & 89/336/EEC


ORDER INFORMATION
BDC34

TYPE	CASE	SUPPLY	OUTPUT	ISOLATION
C Totalizing	L 72x36	A 230VAC	X None	X None
R RPM meter	H 96x48	B 115VAC	C Relay	I Isolated
CR Combined		C 90-250V	E NPN	Input
		AC/DC	J Extern SSR	
		D 12VDC	M MOS gate	
		P 12-24	Isolated	
		VACDC	E 0-20mA	
		R 24VAC	F 4-20mA	

ANALOG
OUTPUT

X None
 E 0-20mA
 F 4-20mA
 K 0-10V